

**SWISS
ROTORS**

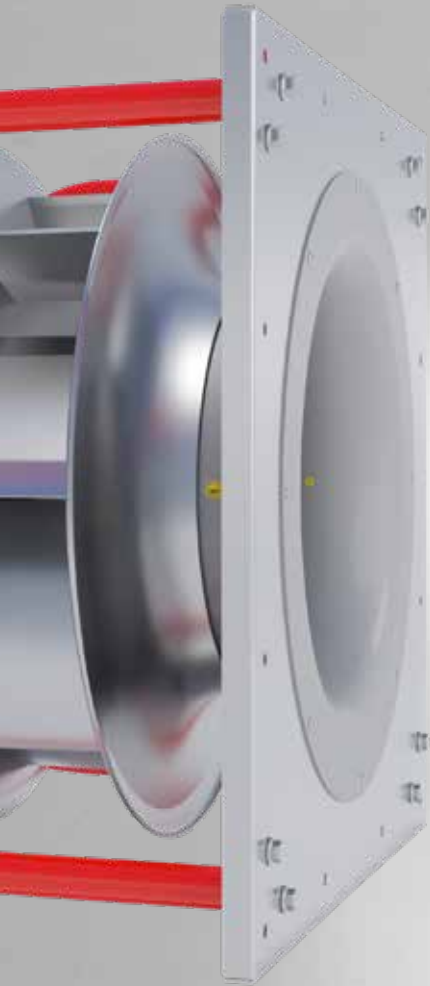


Air Movement

and Heat Recovery

HVAC Components

The Company



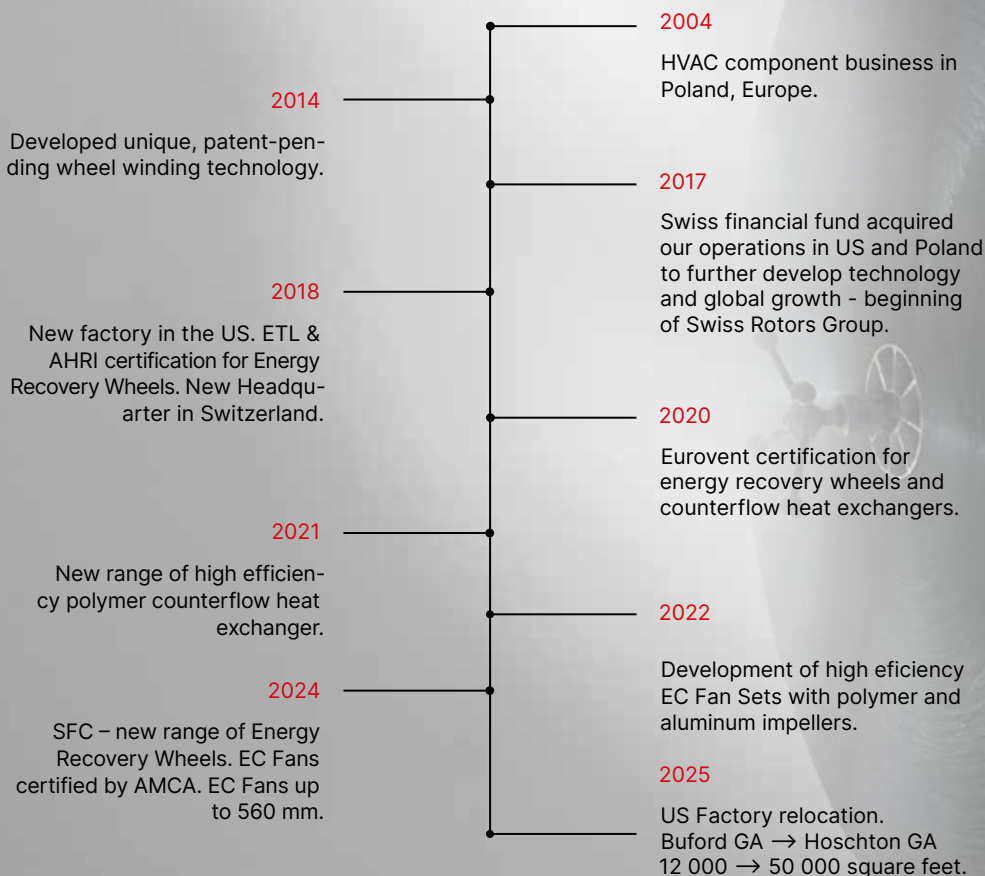
Who we are?

We are a **Swiss Company** specializing in the design and production of key components for air conditioning units.

All our products fully correspond to the dimensions of components commonly used on the market and are 100% equivalent in terms of efficiency and performance.

The components we design and produce are subject to continuous improvement. Their technical parameters are guaranteed by independent certification bodies.

How did we become a **reliable partner**?



SWISS ROTORS



Where are we **located**?

As close as possible...

Where the market dictates the highest requirements for product quality, performance, efficiency and compliance with directives and standards.

Where respect to Energy is a key aspect of every designed, built and operated ventilation system.

Where the requirements for equipment in terms of service life and reliability are the highest.



**SWISS
ROTORS**

HOSCHTON,
GA, USA



**SWISS
ROTORS**

DEBOGÓRZE,
POLAND



We design and manufacture locally...

... to be as close as possible to our customers and the markets that they operate. So as to fully understand their requirements and follow changes in regulations.



How do we **operate**?

Lean Management

It is a system that interconnects all processes taking place in our company. It is a tool that allows for quick exchange of information within our organization, and thus for permanent, quick implementation of new solutions as well as improvement of those already implemented.

Sustainability

When designing new products, improving existing ones and implementing new processes in our company, we pay great attention to how they will affect our environment.

That is why we choose solutions that will allow us to achieve our business goals while maintaining our social responsibility to the communities that we serve.

Automated & Robotized Production

To ensure full repeatability of the components we produce, we have implemented highly automated production lines with cutting-edge automation solutions..

All this to eliminate the human factor from these production activities, where the key issue is the precision of execution and validation of the correctness of assembly activities.



**SWISS
ROTORS**



Accredited **AMCA** station

Fan Performance Reliability

Fans are undoubtedly the main energy-consuming component of ventilation systems. Unlike energy recovery systems, the fan is used regardless of the season - practically all the time when the air handling unit or rooftop is running.

Proper and accurate assessment of the performance parameters of the fans we produce is the key to building long-term business relationships with our clients.

Swiss Rotors Lab

We have installed a certified AMCA test station, where we test the performance and of our fans based on the guidelines of AMCA 210 - the default standard for the most recognized fan certification in the world.

The laboratory of Swiss Rotors Sp. z o.o is accredited with AMCA International as being qualified to conduct tests in accordance with **AMCA 210 Fig. 12, Fig. 15.**

The logo consists of a red, stylized, curved shape resembling a comma or a swoosh, positioned to the right of the company name.

**SWISS
ROTORS**



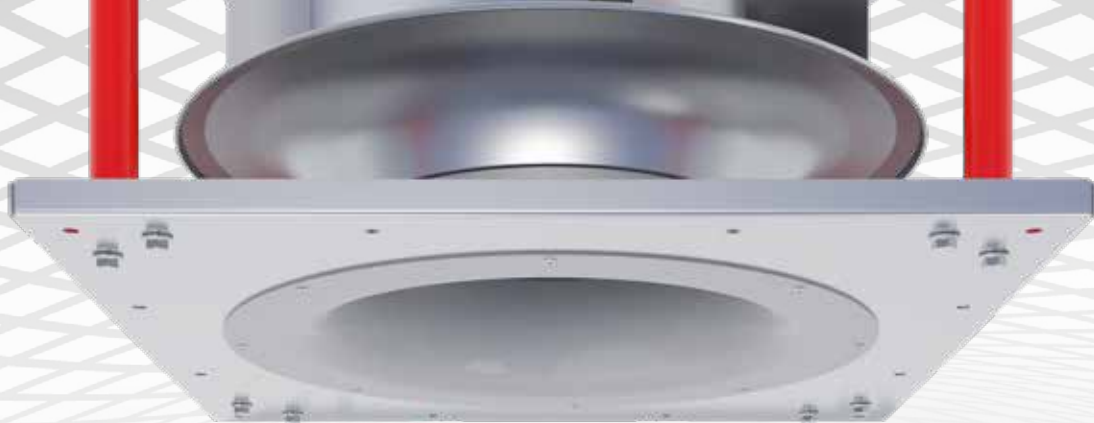
SR-FS

EC Fan Sets



SR-MI

EC Motorized Impellers



Application

Various mechanical ventilation systems, air handling units, rooftop units, and others

Ventilation systems requiring low Specific Fan Power (SFP) together with smooth and precise airflow adjustment

Perfect solution to be combined into Fan-Array systems

Fitted for vertical and horizontal arrangement

General Specification

Available executions:

Fully assembled EC Fan Set (**FS**)

Motorized Impeller with separate inlet funnel (**MI**)

Support to **CAV/VAV** systems (factory mounted static pressure probes on fan inlet vane + precisely determined K-factor)

Air performance according to ISO 5801, Installation Category: A, LwA according to ISO 13347.



Compliance with Standards

ISO 5801:2017 – „Fans – Performance testing using standardized airways”

Commission Regulation(EU) 327/2011 – Requirements for fans driven by motors with an electric input power between 125 W and 500 kW

AMCA – Sound and Air Performance. Fan Efficiency Grade, Fan Efficiency Index.

AMCA

The ratings of SR-FS (EC Fan Sets) and SR-MI EC Motorized Impellers) are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Motor

Type: Electronically Commutated, Brushless DC Motor

Housing: Die-cast aluminum

Protection Degree: IP54

Overload Protection: Inbuilt thermal limit

Speed Control: 0~10VDC / Modbus RTU

Bearing: Ball Type

Impeller

Type: Radial, Backward-curved, Single Inlet

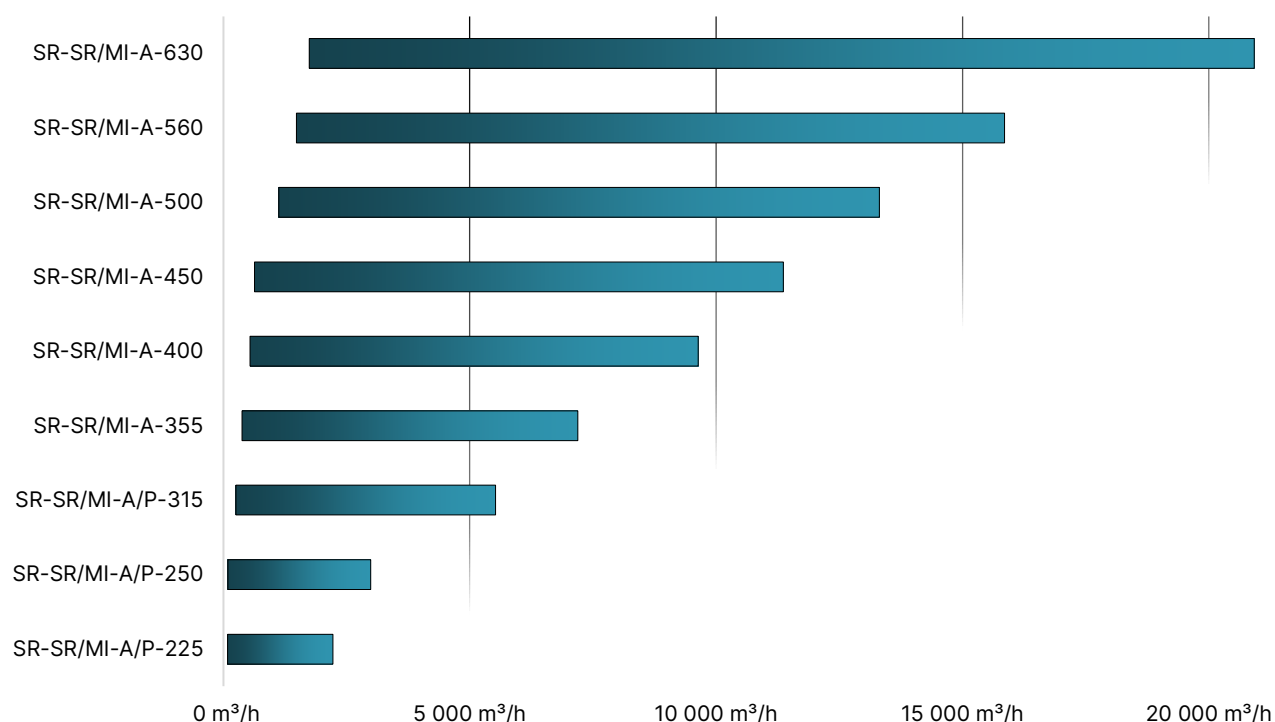
Static efficiency: up to **73%**

Material:

High Performance Polymer (P)

High Performance Aluminum (A)

Balance quality grade: G 6,3 (ISO 1940-1) and BV-3 (ANSI S2.19-1989)



SR-FS-P (Fan Set) SR-MI-P (Motorized Impeller)

Polymer Impellers



Fan Set	Motorized Impeller	Impeller Diameter	Motor capacity	Max airflow	Max static pressure	Supplying voltage (50-60 Hz)	Weight FS / MI
SR-FS-P-225-0.3	SR-MI-P-225-0.3	225 mm	0.3 kW	1 932 m³/h	936 Pa	1×230 VAC	6.1 / 3.2 kg
SR-FS-P-225-0.7	SR-MI-P-225-0.7	225 mm	0.7 kW	2 463 m³/h	1 445 Pa	1×230 VAC	7.5 / 5.0 kg
SR-FS-P-250-0.3	SR-MI-P-250-0.3	250 mm	0.3 kW	2 514 m³/h	846 Pa	1×230 VAC	7.3 / 3.3 kg
SR-FS-P-250-0.7	SR-MI-P-250-0.7	250 mm	0.7 kW	3 089 m³/h	1 373 Pa	1×230 VAC	8.6 / 5.3 kg
SR-FS-P-315-0.3	SR-MI-P-315-0.3	315 mm	0.3 kW	3 384 m³/h	603 Pa	1×230 VAC	10.6 / 4.6 kg
SR-FS-P-315-0.7	SR-MI-P-315-0.7	315 mm	0.7 kW	3 944 m³/h	820 Pa	1×230 VAC	12.0 / 6.2 kg
SR-FS-P-315-1.5	SR-MI-P-315-1.5	315 mm	1.5 kW	5 340 m³/h	1 506 Pa	3×400 VAC	14.7 / 9.5 kg
SR-FS-P-315-2.5	SR-MI-P-315-2.5	315 mm	2.5 kW	5 945 m³/h	1 841 Pa	3×400 VAC	15.8 / 10.5 kg

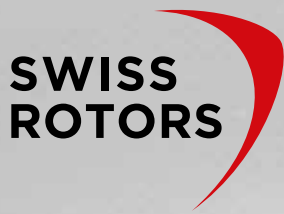
SR-FS-A (Fan Set) SR-MI-A (Motorized Impeller)

Aluminum Impellers



Fan Set	Motorized Impeller	Impeller Diameter	Motor capacity	Max airflow	Max static pressure	Supplying voltage (50-60 Hz)	Weight FS / MI
SR-FS-A-225-0.3	SR-MI-A-225-0.3	225 mm	0.3 kW	1 857 m³/h	935 Pa	1×230 VAC	6.3 / 3.3 kg
SR-FS-A-225-0.7	SR-MI-A-225-0.7	225 mm	0.7 kW	2 358 m³/h	1 466 Pa	1×230 VAC	7.6 / 5.1 kg
SR-FS-A-250-0.3	SR-MI-A-250-0.3	250 mm	0.3 kW	2 508 m³/h	829 Pa	1×230 VAC	7.5 / 3.4 kg
SR-FS-A-250-0.7	SR-MI-A-250-0.7	250 mm	0.7 kW	3 167 m³/h	1 345 Pa	1×230 VAC	8.7 / 5.4 kg
SR-FS-A-315-0.3	SR-MI-A-315-0.3	315 mm	0.3 kW	3 178 m³/h	594 Pa	1×230 VAC	10.9 / 4.9 kg
SR-FS-A-315-0.7	SR-MI-A-315-0.7	315 mm	0.7 kW	3 757 m³/h	799 Pa	1×230 VAC	12.3 / 6.5 kg
SR-FS-A-315-1.5	SR-MI-A-315-1.5	315 mm	1.5 kW	5 142 m³/h	1 464 Pa	3×400 VAC	15.1 / 9.8 kg
SR-FS-A-315-2.5	SR-MI-A-315-2.5	315 mm	2.5 kW	5 852 m³/h	1 806 Pa	3×400 VAC	16.1 / 10.7 kg
SR-FS-A-355-1.6	SR-MI-A-355-1.6	355 mm	1.6 kW	6 025 m³/h	1 279 Pa	3×400 VAC	20.3 / 12.2 kg
SR-FS-A-355-2.5	SR-MI-A-355-2.5	355 mm	2.5 kW	6 769 m³/h	1 665 Pa	3×400 VAC	21.9 / 13.8 kg
SR-FS-A-355-3.7	SR-MI-A-355-3.7	355 mm	3.7 kW	7 617 m³/h	2 142 Pa	3×400 VAC	30.0 / 22.0 kg
SR-FS-A-400-1.6	SR-MI-A-400-1.6	400 mm	1.6 kW	7 314 m³/h	1 179 Pa	3×400 VAC	24.0 / 15.5 kg
SR-FS-A-400-2.5	SR-MI-A-400-2.5	400 mm	2.5 kW	7 603 m³/h	1 348 Pa	3×400 VAC	26.0 / 15.5 kg
SR-FS-A-400-3.7	SR-MI-A-400-3.7	400 mm	3.7 kW	8 754 m³/h	1 861 Pa	3×400 VAC	38.2 / 25.0 kg
SR-FS-A-400-5.4	SR-MI-A-400-5.4	400 mm	5.4 kW	10 203 m³/h	2 510 Pa	3×400 VAC	38.7 / 29.4 kg
SR-FS-A-450-1.6	SR-MI-A-450-1.6	450 mm	1.6 kW	8 469 m³/h	966 Pa	3×400 VAC	35.0 / 17.9 kg
SR-FS-A-450-2.5	SR-MI-A-450-2.5	450 mm	2.5 kW	9 549 m³/h	1 169 Pa	3×400 VAC	43.0 / 29.7 kg
SR-FS-A-450-3.7	SR-MI-A-450-3.7	450 mm	3.7 kW	10 573 m³/h	1 559 Pa	3×400 VAC	45.6 / 29.7 kg
SR-FS-A-450-5.4	SR-MI-A-450-5.4	450 mm	5.4 kW	12 032 m³/h	1 998 Pa	3×400 VAC	47.7 / 31.7 kg
SR-FS-A-500-3.7	SR-MI-A-500-3.7	500 mm	3.7 kW	12 865 m³/h	1 304 Pa	3×400 VAC	53.2 / 33.4 kg
SR-FS-A-500-5.4	SR-MI-A-500-5.4	500 mm	5.4 kW	14 112 m³/h	1 644 Pa	3×400 VAC	58.2 / 38.2 kg
SR-FS-A-560-3.7	SR-MI-A-560-3.7	560 mm	3.7 kW	14 229 m³/h	1 167 Pa	3×400 VAC	60.1 / 36.1 kg
SR-FS-A-560-5.4	SR-MI-A-560-5.4	560 mm	5.4 kW	16 787 m³/h	1 515 Pa	3×400 VAC	64.7 / 40.5 kg
SR-FS-A-630-6.0*	SR-MI-A-630-6.0*	630 mm	6.0 kW	22 149 m³/h	1 283 Pa	3×400 VAC	73.0 / 45.8 kg

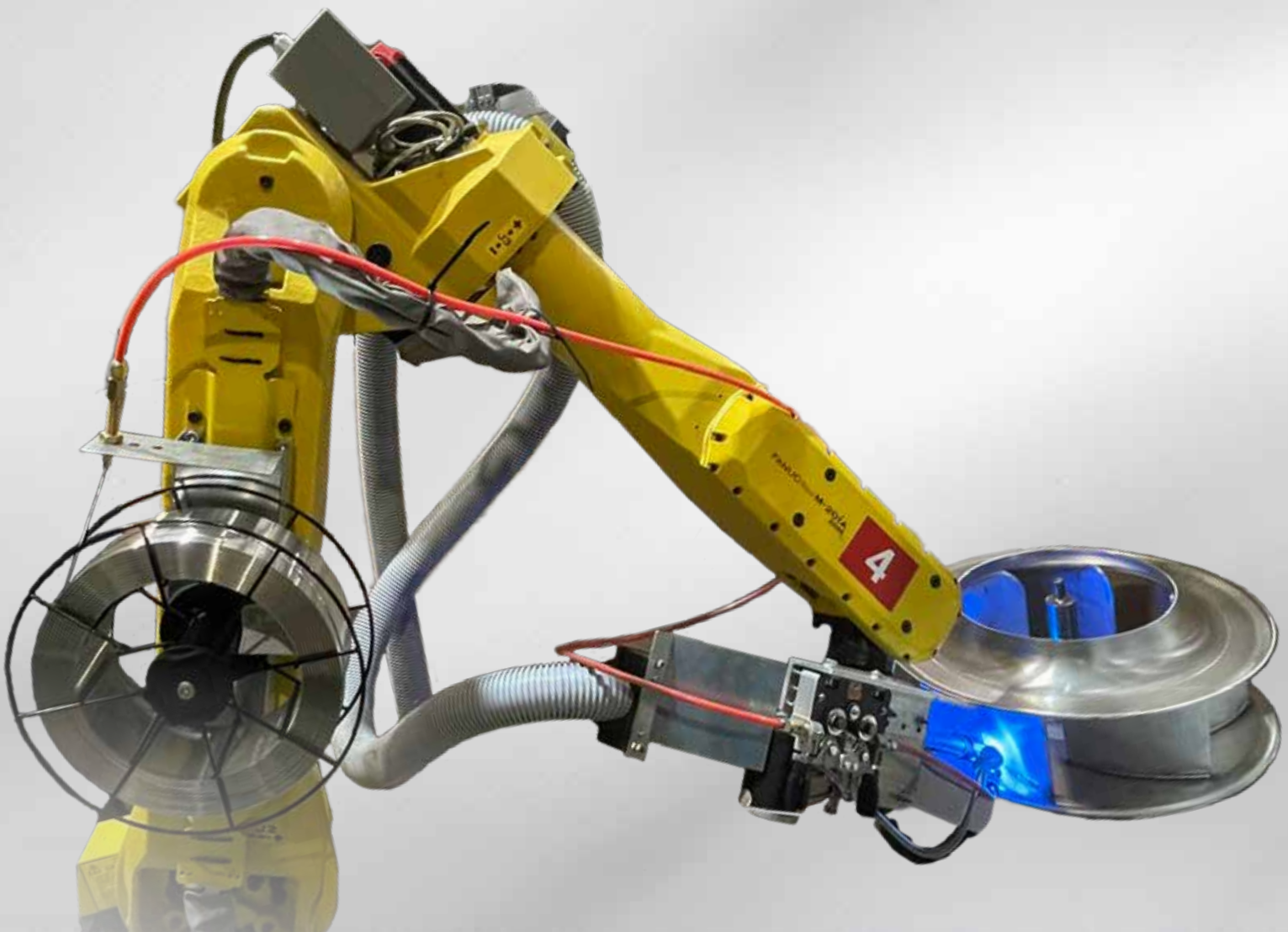
*AMCA certification in progress



SR-FI-A

Laser Welded

Aluminum Fan Impellers



... is a range of **Backward Curved, Single Inlet, Single Width Fan Impellers** made based on the latest technological solutions.

Thanks to this solution, we obtained welds connecting the fan plates with blades with a uniform structure and full repeatability of shape.

Type: Radial, Backward-curved, Single Inlet

Static efficiency: up to **73%**

Material: High Performance Aluminum (A)

Balance quality grade:

G 6,3 (ISO 1940-1)

BV-3 (ANSI S2.19-1989)



SR-FI-A

Model Number

SR-FI-##-###-####-#-####

Taper Lock Bushing Bore diameter

NEMA Motors

	no Taper Lock bushing	
0000		
0500	0.500"	1/2"
0625	0.625"	5/8"
0875	0.875"	7/8"
1125	1.125"	1-1/8"
1375	1.375"	1-3/8"
1625	1.625"	1-5/8"

IEC Motors

	no Taper Lock bushing	
0000		
0014	14 mm	
0019	19 mm	
0024	24 mm	
0028	28 mm	
0038	38 mm	

Motors Sizes system

0	No Motor System defined
N	NEMA Motors
I	IEC Motors

Bolt-on Hub

0000	no Bolt on Hub
1610	BF16-1
1615	SM16-2
2012	SM20

Fan Impeller size

225	225 mm
250	250 mm
315	315 mm
355	355 mm
400	400 mm
450	450 mm
500	500 mm
560	560 mm
630	630 mm

Number of blades

5	Five Blades
7	Seven Blades

Fan Impeller material

A	Aluminum
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Fan Impeller range

SR-FI	Swiss Rotors, Fan Impellers
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Inlet Funnel with static pressure probes

Inlet Funnel	Application	Static Pressure Probes	Part No.
IF-FI-A-225	SR-FI-A7-225	2	1199586
IF-FI-A-250	SR-FI-A7-250	2	1199587
IF-FI-A-315	SR-FI-A7-315	2	1199588
IF-FI-A-355	SR-FI-A7-355	2	1206016
IF-FI-A-400	SR-FI-A7-400	2	1206017
IF-FI-A-450	SR-FI-A7-450	2	1206018
IF-FI-A-500	SR-FI-A7-500	2	1206019
IF-FI-A-560	SR-FI-A7-560	2	1206020
IF-FI-A-630	SR-FI-A5-630	2	1230898

Fan Impeller / No Bolt-on Hub / No Taper Lock Bushing

Fan Impeller	Full Code	Part No.
SR-FI-A7-225	SR-FI-A7-225-0000-0-0000	1204493
SR-FI-A7-250	SR-FI-A7-250-0000-0-0000	1190920
SR-FI-A7-315	SR-FI-A7-315-0000-0-0000	1190930
SR-FI-A7-355	SR-FI-A7-355-0000-0-0000	1190940
SR-FI-A7-400	SR-FI-A7-400-0000-0-0000	1190950
SR-FI-A7-450	SR-FI-A7-450-0000-0-0000	1190960
SR-FI-A7-500	SR-FI-A7-500-0000-0-0000	1190970
SR-FI-A7-560	SR-FI-A7-560-0000-0-0000	1190980
SR-FI-A5-630	SR-FI-A5-630-0000-0-0000	1219246

Fan Impeller / Bolt-on Hub / No Taper Lock Bushing

Fan Impeller	Bolt-on Hub	Full Code	Part No.
SR-FI-A7-225	BF16-1	SR-FI-A7-225-1610-0-0000	1204512
SR-FI-A7-250	BF16-1	SR-FI-A7-250-1610-0-0000	1204563
SR-FI-A7-315	BF16-1	SR-FI-A7-315-1610-0-0000	1204608
SR-FI-A7-355	SM16-2	SR-FI-A7-355-1615-0-0000	1204630
SR-FI-A7-400	SM16-2	SR-FI-A7-400-1615-0-0000	1204640
SR-FI-A7-450	SM20	SR-FI-A7-450-2012-0-0000	1204642
SR-FI-A7-500	SM20	SR-FI-A7-500-2012-0-0000	1204661
SR-FI-A7-560	SM20	SR-FI-A7-560-2012-0-0000	1204672
SR-FI-A5-630	SM20	SR-FI-A5-630-2012-0-0000	1230895

*The Impeller - Taper Lock Bushings combinations shown below are standard. Combinations other than shown are available on request.

NEMA Motors



Fan Impeller / Bolt-on Hub / Taper Lock Bushing

NEMA Motors					
Fan Impeller	Bolt-on Hub	Bore Diameter	Taper Lock Bushing	Full Code	Part No.
SR-FI-A7-225	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-225-1610-N-0500	1218186
		5/8"	1610-5/8" (0.625")	SR-FI-A7-225-1610-N-0625	1218187
		7/8"	1610-7/8" (0.875")	SR-FI-A7-225-1610-N-0875	1218188
		1-1/8"	1610-1-1/8" (1.125")	SR-FI-A7-225-1610-N-1125	1218189
SR-FI-A7-250	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-250-1610-N-0500	1218190
		5/8"	1610-5/8" (0.625")	SR-FI-A7-250-1610-N-0625	1218191
		7/8"	1610-7/8" (0.875")	SR-FI-A7-250-1610-N-0875	1218192
SR-FI-A7-315	BF16-1	1/2"	1610-1/2" (0.500")	SR-FI-A7-315-1610-N-0500	1218193
		5/8"	1610-5/8" (0.625")	SR-FI-A7-315-1610-N-0625	1218194
		7/8"	1610-7/8" (0.875")	SR-FI-A7-315-1610-N-0875	1218195
		1-1/8"	1610-1-1/8" (1.125")	SR-FI-A7-315-1610-N-1125	1218196
SR-FI-A7-355	SM16-2	1/2"	1615-1/2" (0.500")	SR-FI-A7-355-1615-N-0500	1218197
		5/8"	1615-5/8" (0.625")	SR-FI-A7-355-1615-N-0625	1218198
		7/8"	1615-7/8" (0.875")	SR-FI-A7-355-1615-N-0875	1218199
		1-1/8"	1615-1-1/8" (1.125")	SR-FI-A7-355-1615-N-1125	1218200
		1-3/8"	1615-1-3/8" (1.375")	SR-FI-A7-355-1615-N-1375	1218201
SR-FI-A7-400	SM16-2	5/8"	1615-5/8" (0.625")	SR-FI-A7-400-1615-N-0625	1218202
		7/8"	1615-7/8" (0.875")	SR-FI-A7-400-1615-N-0875	1218203
		1-1/8"	1615-1-1/8" (1.125")	SR-FI-A7-400-1615-N-1125	1218204
		1-3/8"	1615-1-3/8" (1.375")	SR-FI-A7-400-1615-N-1375	1218205
		1-5/8"	1615-1-5/8" (1.625")	SR-FI-A7-400-1615-N-1625	1218206
SR-FI-A7-450	SM20	7/8"	2012-7/8" (0.875")	SR-FI-A7-450-2012-N-0875	1218207
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-450-2012-N-1125	1218208
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-450-2012-N-1375	1218209
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-450-2012-N-1625	1218210
		7/8"	2012-7/8" (0.875")	SR-FI-A7-500-2012-N-0875	1218211
SR-FI-A7-500	SM20	1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-500-2012-N-1125	1218212
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-500-2012-N-1375	1218213
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-500-2012-N-1625	1218214
SR-FI-A7-560	SM20	7/8"	2012-7/8" (0.875")	SR-FI-A7-560-2012-N-0875	1218215
		1-1/8"	2012-1-1/8" (1.125")	SR-FI-A7-560-2012-N-1125	1218216
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A7-560-2012-N-1375	1218217
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A7-560-2012-N-1625	1218218
SR-FI-A5-630	SM20	1-1/8"	2012-1-1/8" (1.125")	SR-FI-A5-630-2012-N-1125	1231240
		1-3/8"	2012-1-3/8" (1.375")	SR-FI-A5-630-2012-N-1375	1231241
		1-5/8"	2012-1-5/8" (1.625")	SR-FI-A5-630-2012-N-1625	1231242

Fan Impeller / Bolt-on Hub / Taper Lock Bushing

IEC Motors					
Fan Impeller	Bolt-on Hub	Bore Diameter	Taper Lock Bushing	Full Code	Part No.
SR-FI-A7-225	BF16-1	14 mm	1610-14	SR-FI-A7-225-1610-I-0014	1218345
		19 mm	1610-19	SR-FI-A7-225-1610-I-0019	1218346
		24 mm	1610-24	SR-FI-A7-225-1610-I-0024	1218347
SR-FI-A7-250	BF16-1	14 mm	1610-14	SR-FI-A7-250-1610-I-0014	1218348
		19 mm	1610-19	SR-FI-A7-250-1610-I-0019	1218349
		24 mm	1610-24	SR-FI-A7-250-1610-I-0024	1218350
SR-FI-A7-315	BF16-1	14 mm	1610-14	SR-FI-A7-315-1610-I-0014	1218351
		19 mm	1610-19	SR-FI-A7-315-1610-I-0019	1218352
		24 mm	1610-24	SR-FI-A7-315-1610-I-0024	1218353
		28 mm	1610-28	SR-FI-A7-315-1610-I-0028	1218354
SR-FI-A7-355	SM16-2	14 mm	1615-14	SR-FI-A7-355-1615-I-0014	1218355
		19 mm	1615-19	SR-FI-A7-355-1615-I-0019	1218356
		24 mm	1615-24	SR-FI-A7-355-1615-I-0024	1218357
		28 mm	1615-28	SR-FI-A7-355-1615-I-0028	1218358
		38 mm	1615-38	SR-FI-A7-355-1615-I-0038	1218359
		42 mm	1615-42	SR-FI-A7-355-1615-I-0042	1218360
SR-FI-A7-400	SM16-2	19 mm	1615-19	SR-FI-A7-400-1615-I-0019	1218361
		24 mm	1615-24	SR-FI-A7-400-1615-I-0024	1218362
		28 mm	1615-28	SR-FI-A7-400-1615-I-0028	1218363
		38 mm	1615-38	SR-FI-A7-400-1615-I-0038	1218364
		42 mm	1615-42	SR-FI-A7-400-1615-I-0042	1218365
SR-FI-A7-450	SM20	19 mm	2012-19	SR-FI-A7-450-2012-I-0019	1218366
		24 mm	2012-24	SR-FI-A7-450-2012-I-0024	1218367
		28 mm	2012-28	SR-FI-A7-450-2012-I-0028	1218368
		38 mm	2012-38	SR-FI-A7-450-2012-I-0038	1218369
		42 mm	2012-42	SR-FI-A7-450-2012-I-0042	1218370
SR-FI-A7-500	SM20	24 mm	2012-24	SR-FI-A7-500-2012-I-0024	1218372
		28 mm	2012-28	SR-FI-A7-500-2012-I-0028	1218373
		38 mm	2012-38	SR-FI-A7-500-2012-I-0038	1218374
		42 mm	2012-42	SR-FI-A7-500-2012-I-0042	1218375
SR-FI-A7-560	SM20	28 mm	2012-28	SR-FI-A7-560-2012-I-0028	1218376
		38 mm	2012-38	SR-FI-A7-560-2012-I-0038	1218377
		42 mm	2012-42	SR-FI-A7-560-2012-I-0042	1218378
SR-FI-A5-630	SM20	28 mm	2012-28	SR-FI-A5-630-2012-I-0028	1231245
		38 mm	2012-38	SR-FI-A5-630-2012-I-0038	1231246
		42 mm	2012-42	SR-FI-A5-630-2012-I-0042	1231247

IEC Motors



**SWISS
ROTORS**



200 mm
Energy Recovery Wheel

RT



RT



200 mm Energy Recovery Wheel

Model	Wheel Diameter	Dimensions (WxHxD) [mm]	Minimum Airflow	Maximum Airflow
RT-500	500 mm	580×580×215	353 m ³ /h	1 767 m ³ /h
RT-600	600 mm	680×680×215	509 m ³ /h	2 545 m ³ /h
RT-700	700 mm	780×780×215	693 m ³ /h	3 464 m ³ /h
RT-800	800 mm	880×880×215	905 m ³ /h	4 524 m ³ /h
RT-900	900 mm	980×980×215	1 145 m ³ /h	5 726 m ³ /h
RT-1000	1 000 mm	1080×1080×215	1 414 m ³ /h	7 069 m ³ /h
RT-1100	1 100 mm	1180×1180×215	1 711 m ³ /h	8 553 m ³ /h
RT-1200	1 200 mm	1280×1280×215	2 036 m ³ /h	10 179 m ³ /h
RT-1300	1 300 mm	1380×1380×215	2 389 m ³ /h	11 946 m ³ /h
RT-1400	1 400 mm	1480×1480×215	2 771 m ³ /h	13 854 m ³ /h
RT-1500	1 500 mm	1580×1580×215	3 181 m ³ /h	15 904 m ³ /h
RT-1600	1 600 mm	1680×1680×215	3 619 m ³ /h	18 096 m ³ /h
RT-1700	1 700 mm	1780×1780×215	4 086 m ³ /h	20 428 m ³ /h
RT-1800	1 800 mm	1880×1880×215	4 580 m ³ /h	22 902 m ³ /h
RT-1900	1 900 mm	1980×1980×215	5 104 m ³ /h	25 518 m ³ /h
RT-2000	2 000 mm	2080×2080×215	5 655 m ³ /h	28 274 m ³ /h
RT-2200	2 200 mm	2280×2280×215	6 842 m ³ /h	34 212 m ³ /h
RT-2400	2 400 mm	2480×2480×215	8 143 m ³ /h	40 715 m ³ /h

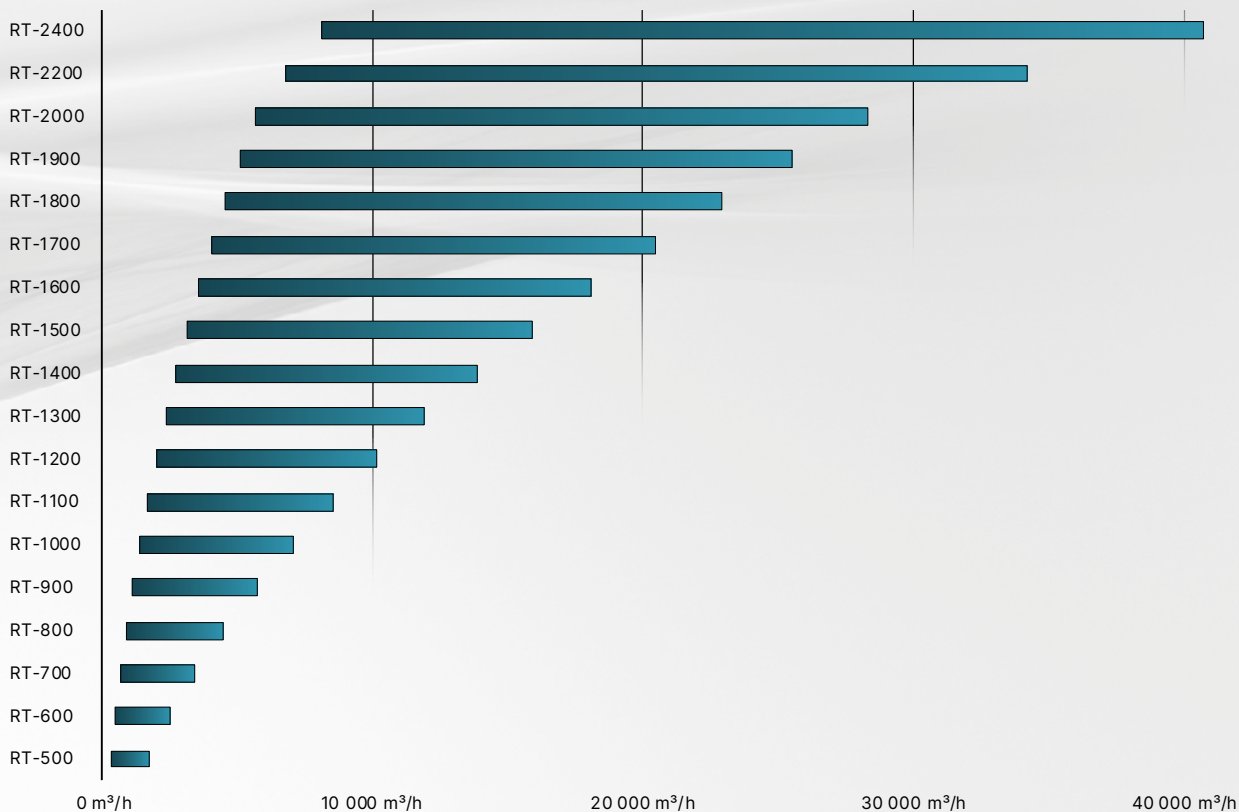
Application

Air handling units and rooftop units

Supply and exhaust mechanical ventilation systems with the required highest possible energy recovery performance

Systems that require moisture recovery in winter and support for air dehumidifying in summer

Ventilation systems designed to operate in climatic conditions favoring frost formation within the energy recovery system



Heat Transfer Media

Aluminum foil – for most efficient sensible heat transfer with humidity transfer based on condensation

Humidity transfer coating based on 3Å molecular sieve for odor-free operations:

„**Condensation**” – supporting latent heat transfer based on condensation

„**Enthalpy**” – supporting latent heat transfer (humidity) based on differences in the molecular pressure of water contained in the air and the coating

„**Sorption**” coating – for highest rate of latent heat transfer (humidity) between supply and return air

Design & Performance

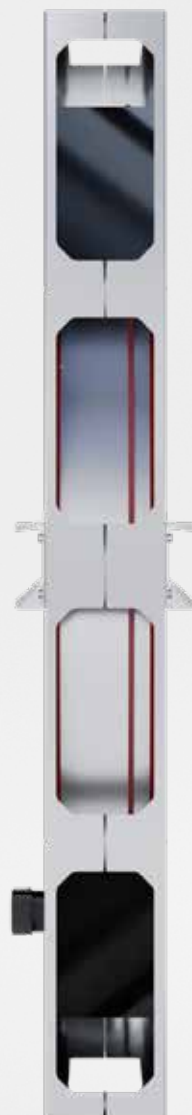
Monolithic construction of the heat accumulation structure based on a patented foil forming technology that interlocks subsequent foil layers

Sensible / Latent / Energy Efficiency reaching: **84,5% / 87,5% / 83,7%**

Double peripheral sealing system to prevent cross-contamination and boost the heat recovery efficiency by additional 2%.

Compliance with standards

EN 308 – „Test Procedures For Establishing Performance Of Air To Air And Flue Gases Heat Recovery”, accordance certified by EUROVENT CERTITA



SWISS ROTORS





SFC

4"

Energy Recovery Wheel

The image shows a long, rectangular energy recovery wheel unit mounted on a ceiling, with a smaller, square unit shown in a cutaway view to the right. The background is a clean, white, curved surface.

SFC

4" Energy Recovery Wheel

Model	Wheel Diameter	Dimensions (WxHxD) [mm]	Minimum Airflow	Maximum Airflow
SFC-25	25 in	29 × 29 × 4.4	280 CFM	1 400 CFM
SFC-30	30 in	34 × 34 × 4.4	400 CFM	2 000 CFM
SFC-36	36 in	39 × 39 × 4.4	600 CFM	3 000 CFM
SFC-41	41 in	44 × 44 × 4.4	780 CFM	3 900 CFM
SFC-46	46 in	50 × 50 × 4.4	1 000 CFM	5 000 CFM
SFC-52	52 in	56 × 56 × 4.4	1 280 CFM	6 400 CFM
SFC-58	58 in	62 × 62 × 4.4	1 600 CFM	8 000 CFM
SFC-64	64 in	68 × 68 × 6.1	1 920 CFM	9 600 CFM
SFC-68	68 in	72 × 72 × 7.1	2 180 CFM	10 900 CFM
SFC-74	74 in	78 × 78 × 7.1	2 580 CFM	12 900 CFM
SFC-81	81 in	85 × 85 × 7.1	3 100 CFM	15 500 CFM

Design & Performance

A range of dimensions that is **equivalent** to most energy recovery wheels available on the market

Monolithic construction of the heat accumulation structure based on a patented foil forming technology that interlocks subsequent foil layers

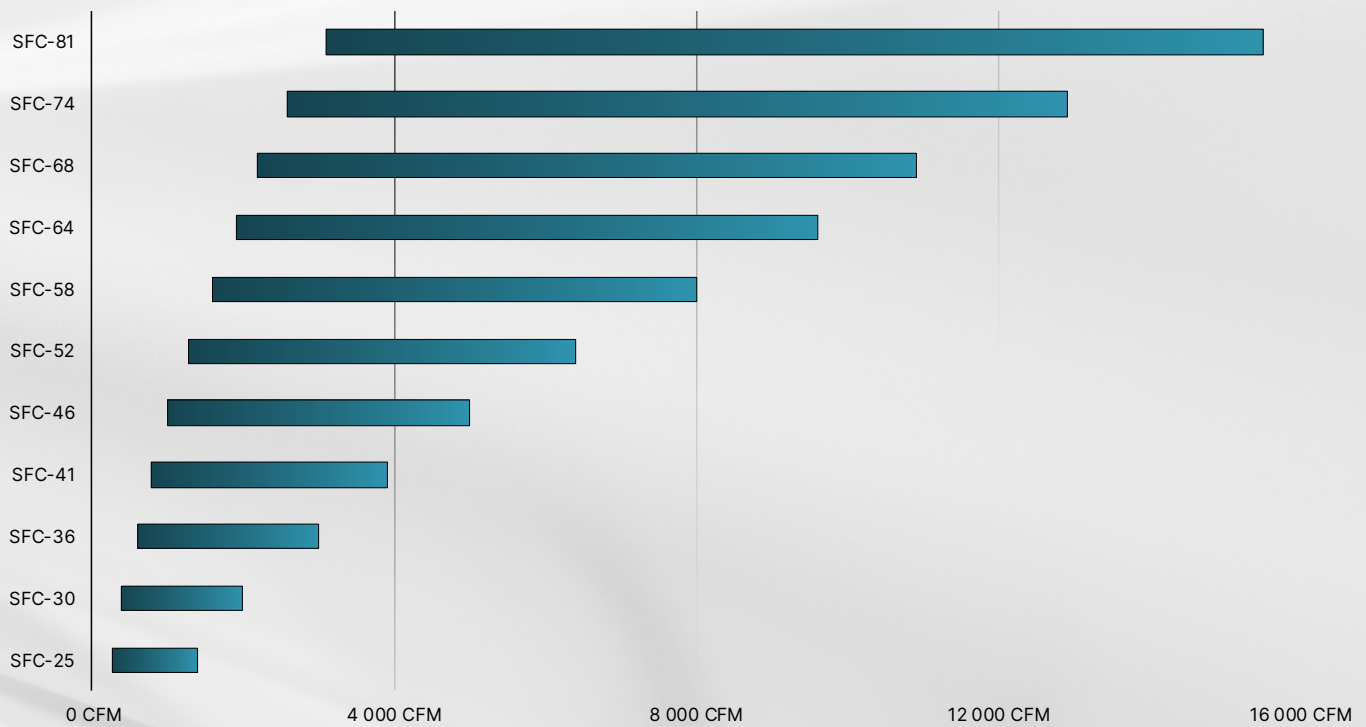
Single diaphragm casing design:

- Facilitates transport and installation of the wheel

- Easy and quick adaptation of the design and drive position to real installation conditions

Sensible / Latent / Total Effectiveness reaching: **75,7% / 87,9% / 74,7%***

*Effectiveness given for 316 FPM (1,6 m/s) air face velocity Sorption wheel



Heat Transfer Media

Humidity transfer coating based on $3\text{\AA}$ molecular sieve for odor-free operations:

"**Sorption**" coating – for highest rate of latent heat transfer (humidity) between supply and return air

Compliance with standards

AHRI Standard 1060 – „Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment“, Accordance certified by **AHRI Certification**



Motor

3-phase asynchronous motor fitted for **VFD operations**

Wide range of power supply options:

208-230/380/460V/3

575V/3

230/400V/3

Drive

Compact, highly efficient and reliable planetary gear fitted for wide wheel revolutions adjustment

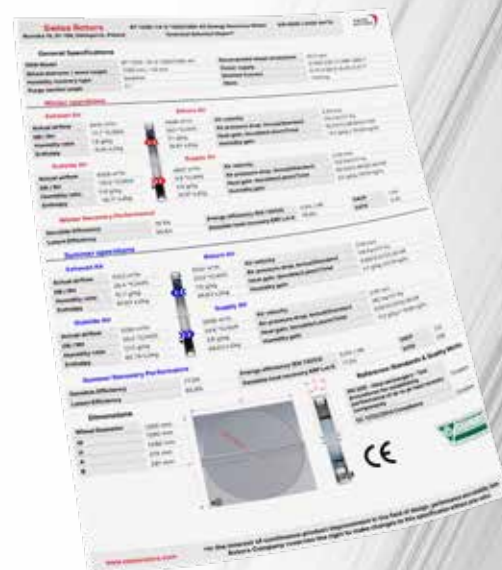
Segment belt enabling easy replacement, addition or removal of individual links



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